

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/07795

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ F02C3/30, F02C6/00, F02C9/40, H02J3/01, H02J3/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ F02C3/30, F02C6/00, F02C9/40, F01K23/10, F01K27/02,
H02J3/01, H02J3/32, H02P9/40

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-182553 A (Kawasaki Steel Corp.), 06 July, 2001 (06.07.01), Fig. 4; page 8, left column, lines 14 to 40 (Family: none)	1-3, 10, 11, 13, 16 4-9, 12, 14, 15
A	JP 2-16039 Y1 (Kawasaki Steel Corp.), 01 May, 1990 (01.05.90), Fig. 1 (Family: none)	1-3, 10, 11, 13, 16 4-9, 12, 14, 15
Y	JP 10-288049 A (Hitachi, Ltd.), 27 October, 1998 (27.10.98), Claim 3; page 5, right column, lines 22 to 47 (Family: none)	1-3, 10, 11, 13, 16 4-9, 12, 14, 15
A		

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
24 September, 2003 (24.09.03)Date of mailing of the international search report
07 October, 2003 (07.10.03)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 7-4267 A (Hitachi, Ltd.), 10 January, 1995 (10.01.95),	1-3, 10, 11, 13, 16
A	Page 8, right column, lines 13 to 30 (Family: none)	4-9, 12, 14, 15
Y	JP 2-40417 A (Central Research Institute of	1, 3
A	Electric Power Industry), 09 February, 1990 (09.02.90), Page 4, lower right column, line 17 to page 5, upper left column, line 3 (Family: none)	2, 4-16
Y	JP 5-18265 A (Hitachi, Ltd.),	1, 3
A	26 January, 1993 (26.01.93), Page 6, left column, lines 30 to 50 (Family: none)	2, 4-16
Y	JP 8-140285 A (Hitachi, Ltd.),	4, 14
A	31 May, 1996 (31.05.96), Page 4, left column, lines 30 to 39 (Family: none)	1-3, 5-13, 15, 16
A	JP 2000-341860 A (Nissin Electric Co., Ltd.), 08 December, 2000 (08.12.00), Full text (Family: none)	4, 14
Y	JP 2000-2790 A (Toshiba Corp.),	6-8, 15
A	07 January, 2000 (07.01.00), Figs. 16, 17; page 12, right column, line 30 to page 25, left column, line 36 (Family: none)	1-4, 5, 9-14, 16
Y	JP 11-72028 A (Mitsubishi Heavy Industries, Ltd.),	6, 7, 15
A	16 March, 1999 (16.03.99), Page 6, left column, lines 30 to 50 (Family: none)	1-5, 8-14, 16
Y	EP 0400701 A (TURBOCONSULT B.V.),	11, 16
A	14 May, 1990 (14.05.90), Full text & US 5083425 A & JP 3-18627 A	1-10, 12-15
Y	JP 8-261014 A (Mitsubishi Heavy Industries,	11, 16
A	Ltd.), 08 October, 1996 (08.10.96), Full text (Family: none)	1-10, 12-15
Y	JP 2000-48844 A (Mitsubishi Heavy Industries,	11, 16
A	Ltd.), 18 February, 2000 (18.02.00), Full text (Family: none)	1-10, 12-15

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Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:

because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

The technical feature common to claims 1, 4 is "to generate power using the by-product gas produced in a plant as the fuel of a high-efficiency combined cycle power generation".

However, the common technical feature is a well-known technique and not novel without any need to specifically cite a prior art document. Consequently, this common technical feature cannot be a special technical feature within the meaning of PCT Rule 13.2, second sentence. Since there exists no other common feature which can be considered as a special technical feature within the meaning of PCT Rule 13.2,

(continued to extra sheet.)

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

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Continuation of Box No. II of continuation of first sheet (1)

second sentence, no technical relationship within the meaning of PCT Rule 13 between the different inventions can be seen. Consequently, it appears that claims 1, 4 do not satisfy the requirement of unity of invention.

Claims 1, 13 satisfy the requirement of unity of invention.